N=3

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 3 |
| 8 | 9 N^2 ([end\_col][end\_row] + ([end\_col][end\_row-1]) + 0 | 4 |
| 7 | 6 | 5 |

N=4

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| 12 | 13 | 14 N^2 – 2 or ([end\_col][end\_row] + ([end\_col][end\_row-1]) + 1 | 5 |
| 11 | 16 N^2 | 15 | 6 |
| 10 | 9 | 8 | 7 |

N=5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 |
| 16 | 17 | 18 | 19 N^2 – 6 or ([end\_col][end\_row] + ([end\_col][end\_row-1]) + 2 | 6 |
| 15 | 24 | 25 N^2 | 20 | 7 |
| 14 | 23 | 22 | 21 | 8 |
| 13 | 12 | 11 | 10 | 9 |

N=6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 20 | 21 | 22 | 23 | 24 N^2 – 12 or ([end\_col][end\_row] + ([end\_col][end\_row-1]) + 3 | 7 |
| 19 | 32 | 33 | 34 | 25 | 8 |
| 18 | 31 | 36 N^2 | 35 | 26 | 9 |
| 17 | 30 | 29 | 28 | 27 | 10 |
| 16 | 15 | 14 | 13 | 12 | 11 |

N=7

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 24 | 25 | 26 | 27 | 28 | 29 N^2 – 20 or ([end\_col][end\_row] + ([end\_col][end\_row-1]) + 4 | 8 |
| 23 | 40 | 41 | 42 | 43 | 30 | 9 |
| 22 | 39 | 48 | 49 N^2 | 44 | 31 | 10 |
| 21 | 38 | 47 | 46 | 45 | 32 | 11 |
| 20 | 37 | 36 | 35 | 34 | 33 | 12 |
| 19 | 18 | 17 | 16 | 15 | 14 | 13 |